

Virus

Report of the Presidential Commission on the Human Immunodeficiency Virus Epidemic United States. Presidential Commission on the Human Immunodeficiency Virus Epidemic.1988

Advances in Virus Research .1996-12-12 Praise for the Series: This serial... is well known to virologists. It is a valuable aid in maintaining an overview of various facets of the rapidly expanding fields of virology... Timely, informative, and useful to student, teacher, and research scientist. --American Scientist A mandatory purchase for all types of comprehensive libraries, both public and university, as well as for those interested in or doing research in the field of virology. --Military Medicine Among the topics covered are: Virus-induced immunopathology Filoviruses Molecular characterization of pestiviruses Transactivation of cellular genes by hepatitis B virus proteins Principles of molecular organization, expression, and evolution of closteroviruses Primate T lymphotropic oncoretroviruses Replication of positive-stranded RNA viruses of plants and animals *The Enigma of Slow Viruses* Pawel P. Liberski.2012-12-06 Scrapie, a naturally occurring neurodegenerative disease of sheep and sometimes goats, is a prototypic disease for the whole group of the subacute spongiform virus encephalopathies. Kuru was the first human disease of this type to be discovered in 1957 by Gajdusek and Zigas, and its discovery opened the whole field in the human biomedical sciences by the very realization of the fact that viruses may induce disease months or even decades after infections, and that these slow virus diseases are more compatible with classical degenerations of the nervous system than with inflammatory disorders of the brain. More than a quarter of a century since discovery of Kuru, and more than half a century following the first transmission of scrapie, the very nature of the infectious virus remains unknown. This comprehensive review covers all aspects of slow unconventional virus infections known today. It includes numerous historical data, biochemistry and molecular biology of the prion protein and its gene, the role of genetics and mutations within PrP gene, spreading and targeting of the virus, biochemistry and neurochemistry of the alterations of different neurotransmitter system and neuropathology. More than 1000 references are listed and critically analyzed; the reader can find references to all experiments and laboratory findings which has ever been done in this field. Furthermore, the book offers different view on the basic problems as for example, the nature of the scrapie agent.

The Life of a Virus Angela N. H. Creager.2002 We normally think of viruses in terms of the devastating diseases they cause, from smallpox to AIDS. But in *The Life of a Virus*, Angela N. H. Creager introduces us to a plant virus that has taught us much of what we know about all viruses, including the lethal ones, and that also played a crucial role in the development of molecular biology. Focusing on the tobacco mosaic virus (TMV) research conducted in Nobel laureate Wendell Stanley's lab, Creager argues that TMV served as a model system for virology and molecular biology, much as the fruit fly and laboratory mouse have for genetics and cancer research. She examines how the experimental techniques and instruments Stanley and his colleagues developed for studying TMV were generalized not just to other labs working on TMV, but also to research on other diseases such as poliomyelitis and influenza and to studies of genes and cell organelles. The great success of research on TMV also helped justify increased spending on biomedical research in the postwar years (partly through the National Foundation for Infantile Paralysis's March of Dimes)—a funding priority that has continued to this day.

Perspectives for the Next Generation of Virus Research: Spearheading the Use of Innovative Technologies and Methodologies Takatoki Yamamoto,Ayae Honda,Toshinori Sato,Akihide Ryo.2017-07-06 Infectious diseases are associated with approximately 20% of global mortality, with viral diseases causing about one third of these deaths. Besides newly emerging and re-emerging viral infections will continue to pose a threat to human survival globally. In this case scientific advances have greatly been increased to defend against those pathogens. For example, rapid

genomic sequencing, proteomics, epigenomics, nanotechnology, and other advanced tools are being applied to detect viruses at the point of care and to track their spread within human populations as well as to understand virus-host interaction and virus induced pathogenesis. From rapid identification of new viruses to prevention with vaccination and treatment with effective therapeutics, biomedical research has continuously provided tools to meet the constant threat of emerging viral pathogens. Despite these advances, each new disease brings unique challenges to scientists every year. So we must stay at the cutting edge of scientific discovery, working energetically to develop new tools to combat the ever-changing threats they pose. Our research topic highlights such advanced and new technology based virus research which definitely bolsters the researcher's ability to tackle emerging, re-emerging and stable viral pathogens. We are credulous that the papers including in the e-books will be beneficial to the experts in the field to understand the molecular, immunological, ecological and clinical aspects of the next generation researches for the prevention and control of infectious diseases caused by viruses.

Virus as Populations Esteban Domingo.2019-11-06 Virus as Composition, Complexity, Quasispecies, Dynamics, and Biological Implications, Second Edition, explains the fundamental concepts surrounding viruses as complex populations during replication in infected hosts. Fundamental phenomena in virus behavior, such as adaptation to changing environments, capacity to produce disease, and the probability to be transmitted or respond to treatment all depend on virus population numbers. Concepts such as quasispecies dynamics, mutations rates, viral fitness, the effect of bottleneck events, population numbers in virus transmission and disease emergence, and new antiviral strategies are included. The book's main concepts are framed by recent observations on general virus diversity derived from metagenomic studies and current views on the origin and role of viruses in the evolution of the biosphere. Features current views on key steps in the origin of life and origins of viruses Includes examples relating ancestral features of viruses with their current adaptive capacity Explains complex phenomena in an organized and coherent fashion that is easy to comprehend and enjoyable to read Considers quasispecies as a framework to understand virus adaptability and disease processes

The Role of Animals in Emerging Viral Diseases Nicholas Johnson.2013-09-16 The Role of Animals in Emerging Viral Diseases presents what is currently known about the role of animals in the emergence or re-emergence of viruses including HIV-AIDS, SARS, Ebola, avian flu, swine flu, and rabies. It presents the structure, genome, and methods of transmission that influence emergence and considers non-viral factors that favor emergence, such as animal domestication, human demography, population growth, human behavior, and land-use changes. When viruses jump species, the result can be catastrophic, causing disease and death in humans and animals. These zoonotic outbreaks reflect several factors, including increased mobility of human populations, changes in demography and environmental changes due to globalization. The threat of new, emerging viruses and the fact that there are no vaccines for the most common zoonotic viruses drive research in the biology and ecology of zoonotic transmission. In this book, specialists in 11 emerging zoonotic viruses present detailed information on each virus's structure, molecular biology, current geographic distribution, and method of transmission. The book discusses the impact of virus emergence by considering the ratio of mortality, morbidity, and asymptomatic infection and assesses methods for predicting, monitoring, mitigating, and controlling viral disease emergence. Analyzes the structure, molecular biology, current geographic distribution and methods of transmission of 10 viruses Provides a clear perspective on how events in wildlife, livestock, and even companion animals have contributed to virus outbreaks and epidemics Exemplifies the one world, one health, one medicine approach to emerging disease by examining events in animal populations as precursors to what could affect humans

The Hot Zone Richard Preston.1995 The virus kills nine out of ten of its victims. Its effects are so quick and so gruesome that even biohazard experts are terrified. It is airborne, it is extremely contagious, and it is about to burn through the suburbs of Washington, D.C. Is there any way to stop it? This doomsday scenario confronted a biohazard SWAT team struggling in secret to stop the

outbreak of an exotic hot virus at an Army research facility outside Washington. The Hot Zone tells the dramatic story of their dangerous race against time, along with an alarming account of how previously unknown viruses that have lived undetected in the rain forest for eons are now entering human populations. From the airlocked confines of a biosafety level 4 military lab, to an airliner over Kenya carrying a passenger dissolving into a human virus bomb, to a deserted jungle cave alive with deadly virus, THE HOT ZONE is a non-fiction thriller like no other. The Andromeda Strain was fiction--- this is real!

The Viral Storm Nathan D. Wolfe.2011-10-27 'Wolfe has an important story to tell and as a virologist at the forefront of pandemic forecasting, he is the perfect person to tell it' Guardian In The Viral Storm award-winning biologist Nathan Wolfe - known as 'the Indiana Jones of virus hunters' for his work in jungles and rain forests across the world - shows why we are so vulnerable to a global pandemic. The Viral Storm examines how viruses like HIV, swine flu, and bird flu have almost wiped us out in the past - and may do so in the future. It explores why modern life makes us so at risk to global pandemics, and what new technologies can do to prevent them. Wolfe's provocative vision may leave you feeling distinctly uncomfortable - but it will reveal exactly what it is we are up against. 'An excellent piece of scientific gothic, rich in descriptions of the threat we face from emerging viruses' Nature 'Part autobiography, part warning ... enthralling' BBC Focus 'Quietly terrifying ... It's hard not to feel a bit feverish at times while reading' Boston Globe 'The plague-ridden future imagined by this authoritative, measured, yet gripping book is extremely alarming' Sunday Times 'Nathan Wolfe is saving the world from near-inevitable pandemic ... a kick-ass book' Mary Roach, author of Stiff 'The world's most prominent virus hunter' New Yorker 'A good place to start preparing for what might come' New Humanist

Comprehensive Virology Heinz Fraenkel-Conrat.2012-12-06 The time seems ripe for a critical compendium of that segment of the biological universe we call viruses. Virology, as a science, having passed only recently through its descriptive phase of naming and numbering, has probably reached that stage at which relatively few new truly new-viruses will be discovered. Triggered by the intellectual probes and techniques of molecular biology, genetics, biochemical cytology, and high resolution microscopy and spectroscopy, the field has experienced a genuine information explosion. Few serious attempts have been made to chronicle these events. This comprehensive series, which will comprise some 6000 pages in a total of about 18 volumes, represents a commitment by a large group of active investigators to analyze, digest, and expostulate on the great mass of data relating to viruses, much of which is now amorphous and disjointed, and scattered throughout a wide literature. In this way, we hope to place the entire field in perspective, and to develop an invaluable reference and sourcebook for researchers and students at all levels. This series is designed as a continuum that can be entered anywhere, but which also provides a logical progression of developing facts and integrated concepts.

Unconventional Agents and Unclassified Viruses O.-R. Kaaden,W. Eichhorn,C.-P. Czerny.2012-12-06 Among unconventional agents and unclassified viruses the contributions to this volume focused on prion-related diseases, with special emphasis on bovine spongiform encephalopathy and human spongiform encephalopathies, and Borna disease virus, an agent known since long time to be pathogenic for horses and sheep, which is now discussed as a potential pathogen for humans. Additionally, the volume contains articles about newly discovered viruses like porcine respiratory and reproductive syndrome virus and viruses that are classified only provisionally like African swine fever virus, hepatitis C and E viruses, or the arteriviruses.

Virus Marilyn J. Roossinck,Carl Zimmer.2016-08-24 Viruses are the last frontier of undiscovered life on our planet. The most abundant type of organism on Earth, they infect all types of cellular life, and, as micro-organisms that cause disease in their hosts, they are highly opportunistic and relentlessly efficient. They exist at the vanguard of DNA variance, exhibiting more structural diversity than plants, animals, archaea, or even bacteria. This 21st-century guide offers an engaging introductory section explaining exactly what viruses are and how they operate, followed by individual profiles of 101 of the world's most notable examples, each with its own dazzling mugshot

ZIKA VIRUS DISEASE Adnan Quereshi.2017-11-17 Zika Virus provides an authoritative account of one of most fascinating viruses of the 21st century, covering all the main points. It includes coverage of clinical manifestations, such as fever and fatigue, but also delves into neurological manifestations like acute demyelinating neuropathy. In addition, the book discusses new evidence that suggests that Zika fever in pregnant women can cause abnormal brain development in fetuses by mother-to-child transmission. The Zika virus infection has become one of the first where women are actively discouraged from getting pregnant. Readers will find this book to be a comprehensive resource on the topic. Covers every important aspect of the Zika virus disease, from biological, to social and economic impacts Focuses on women's health issues that have surfaced, including birth defects in newborns Written in an easy to comprehend manner, with technical terms clearly defined in chapters that highlight genetics

Ebola Dorothy H. Crawford.2016-11-10 First discovered in 1976, and long regarded as an easily manageable virus affecting isolated rural communities, Ebola rocketed to world prominence in 2014 as a deadly epidemic swept through Guinea, Sierra Leone, and Liberia in West Africa. Thousands of people died as the extraordinarily contagious disease spread rapidly from villages to urban centres. Initial quarantine responses proved often too little and too late, and the medical infrastructure of the affected countries struggled to cope. By August 2014, several months after the start of the outbreak, the WHO declared the epidemic a public health emergency and international aid teams and volunteers began to pour in. But halting the epidemic proved to be hugely challenging, not only in terms of the practicalities of dealing with the sheer numbers of patients carrying the highly infectious virus, but in dealing with social and cultural barriers. The author, Dorothy Crawford, visited Sierra Leone while the epidemic was ongoing and met with those on the frontline in the fight against the virus. In Ebola Crawford combines personal accounts from these brave medical workers with the latest scientific reports to tell the story of the epidemic as it unfolded, and how it has changed our understanding of the virus. She looks at its origin and spread, the international response, and its devastating legacy to the health of those living in the three worst affected countries. She describes the efforts to prevent international spread, the treatment options for Ebola, including the drug and vaccine trials that eventually got underway in 2015, and the sensitive issue of running trials of experimental therapies during a lethal epidemic. Our understanding of the Ebola virus continues to develop as long-term health problems and complications following recovery from the disease are being identified. Epidemics of Ebola or other dangerous microbes will continue to threaten the world regularly. Already concerns have been raised by the possible impact of the Zika virus. What lessons have been learnt from Ebola? How, asks Crawford, might we prevent a repeat of the awful suffering seen in 2014-16?

Emergence and Control of Zoonotic Viral Encephalitides Charles H. Calisher,Diane E. Griffin.2013-12-01 In this period of obvious natural emergence of viral and other diseases, it is unclear as to what diseases are emerging, why they are emerging, and what, if anything, can be done to prevent or diminish their impact. This book, a compendium of presentations made at an international meeting of experts, provides summaries of areas of concern and details as to how disease agents such as Nipah and Hendra viruses in Australasia and West Nile virus in the Americas might have suddenly appeared. Either by alterations in natural habitats and diversity or by chance, pathogens emerge from time to time. This book addresses various aspects of such emergences, such as pathogenetic mechanisms of viruses, diagnosis of viral infections, viral host-management strategies, viral genetics, vaccine development and application. It is especially valuable for laboratory virologists, disease ecologists, physicians, and those who want to understand the complexities of viral characteristics.

Viruses Paula Tennant,Gustavo Fermin,Jerome E. Foster.2018-03-12 Viruses: Molecular Biology, Host Interactions, and Applications to Biotechnology provides an up-to-date introduction to human, animal and plant viruses within the context of recent advances in high-throughput sequencing that have demonstrated that viruses are vastly greater and more diverse than previously recognized. It covers discoveries such as the Mimivirus and its virophage which have stimulated new discussions

on the definition of viruses, their place in the current view, and their inherent and derived 'interactomics' as defined by the molecules and the processes by which virus gene products interact with themselves and their host's cellular gene products. Further, the book includes perspectives on basic aspects of virology, including the structure of viruses, the organization of their genomes, and basic strategies in replication and expression, emphasizing the diversity and versatility of viruses, how they cause disease and how their hosts react to such disease, and exploring developments in the field of host-microbe interactions in recent years. The book is likely to appeal, and be useful, to a wide audience that includes students, academics and researchers studying the molecular biology and applications of viruses. Provides key insights into recent technological advances, including high-throughput sequencing. Presents viruses not only as formidable foes, but also as entities that can be beneficial to their hosts and humankind that are helping to shape the tree of life. Features exposition on the diversity and versatility of viruses, how they cause disease, and an exploration of virus-host interactions.

Cyrus the Virus D. J. Chakraborty. 2021-04-01 The character Cyrus the Virus was created in 1979 when the author was nine-years-old and welcomed a new baby brother. Always fond of cleanliness, she was especially careful to keep her two brothers and the family home disinfected and deodorized. In science class, she learned that a dirty environment breeds disease, especially viruses; what better name for a virus than Cyrus? The responsible big sister was keen to make sure her baby brother, five-year-old brother, and all their friends kept clean and safe from foul, fetid Cyrus the Virus. After two or three patient years, the author's mother told her, "Enough of your Cyrus the Virus stories! It is not nice to frighten your brothers and friends." After an intermission, Cyrus the Virus was reborn in 1991 when the author became a mother welcoming her own baby boy. She had never abandoned her love for cleanliness and was enthusiastic to keep her son, her two brothers, and the family home superbly sanitized. Once again, two or three patient years elapsed. Her mother again said, "Enough already with your Cyrus the Virus stories! What kind of mother frightens her own child?" A milder version of Cyrus the Virus came back to life in 2018 as the author recovered from influenza. Enthusiastic to keep her students healthy, she related the importance of proper hygiene and developed lessons plans and techniques to accomplish it. Those techniques are discussed and detailed in this book; washing hands is only one part of the clean procedure. Today, the deadly coronavirus has proliferated a pandemic beyond human imagination. Recommended for ages nine to adult, this book will hopefully inspire readers to utilize the cure they already possess. Happy, healthy reading!

Virusphere: Ebola, AIDS, COVID-19 and the Hidden World of the Virus Frank

Ryan. 2019-03-21 A virologist's insight into how viruses evolve and why global epidemics are inevitable

The Virus Sally Smith Hughes. 1977

Virus as Populations Esteban Domingo. 2019-11-01 Virus as Composition, Complexity, Quasispecies, Dynamics, and Biological Implications, Second Edition, explains the fundamental concepts surrounding viruses as complex populations during replication in infected hosts. Fundamental phenomena in virus behavior, such as adaptation to changing environments, capacity to produce disease, and the probability to be transmitted or respond to treatment all depend on virus population numbers. Concepts such as quasispecies dynamics, mutations rates, viral fitness, the effect of bottleneck events, population numbers in virus transmission and disease emergence, and new antiviral strategies are included. The book's main concepts are framed by recent observations on general virus diversity derived from metagenomic studies and current views on the origin and role of viruses in the evolution of the biosphere.

Surviving a Killer Virus Charlie Ogden. 2017-12-15 Killer viruses are just the focus of movies in the experience of most readers, but they're not out of the realm of possibility. Viruses can spread at unbelievably fast rates and with frightening consequences. After reading this inventive volume, young virologists will picture themselves as the hero of their own story. They'll learn how viruses spread, how to avoid contamination, and the best way to battle and perhaps conquer an invisible

killer. Science meets science fiction in this motivating look at what happens when deadly viruses rage out of control.

Structure-Function Relationships of Human Pathogenic Viruses Andreas Holzenburg, Elke Bogner. 2002-04-30 *Structure-Function Relationships of Human Pathogenic Viruses* provides information on the mechanisms by which viruses enter the cell, replicate, package their DNA into capsids and mature into new virions. The relation between structural features and the pathogenicity and oncogenicity of some of the most relevant human viral pathogens are demonstrated and the acquisition of defense mechanisms through virus-host interactions are presented. In contrast to textbooks, this volume combines timely research data to provide a holistic view of viral pathogenesis. Furthermore *Structure-Function Relationships of Human Pathogenic Viruses* illustrates in a single volume the fundamental processes involved in viral life cycles using up-to-date information from research laboratories around the world. Knowledge of these processes is crucial to develop rationales for the design of future drugs. The timeliness of the data and the comprehensive yet concise approach this book takes in order to present the world of viral pathogens should make it a frontrunner in higher education and R&D.

The Butterfly Virus Victor Grippi. 2009-02-02 When an unknown virus breaks out in the Southwest, a genetic engineer, his newly hired chief scientist, and an archaeologist specializing in Native American cultures team up to combat it.

Virus Hunters 1 Bobby Akart. 2020-04-29 From the imaginative mind of international bestselling author, Bobby Akart, comes a series ripped from today's headlines. Meet the Virus Hunters, the disease detectives on the front line of a never-ending battle to save humanity from viruses one-billionth our size.

Viruses and Human Disease Ellen G. Strauss, James H. Strauss. 2007-09-21 Completely revised and updated, the new edition of this groundbreaking text integrates basic virology with pathophysiological conditions to examine the connection between virology and human disease. Most virology textbooks focus on the molecular biology involved without adequate reference to physiology. This text focuses on viruses that infect humans, domestic animals and vertebrates and is based on extensive course notes from James Strauss' virology class at the California Institute of Technology taught for over 30 years. Expertly depicting in color the molecular structure and replication of each virus, it provides an excellent overview for students and professionals interested in viruses as agents of human disease. Includes over 30% new material - virtually all of the figures and tables have been redrawn to include the latest information and the text has been extensively rewritten to include the most up-to-date information. Includes a new chapter on emerging and reemerging viral diseases such as avian flu, SARS, the spread of West Nile virus across America, and the continuing spread of Nipah virus in Southeast Asia. Further reading sections at the end of each chapter make it easy to find key references. World maps depicting the current distribution of existing and newly emerging viruses are also incorporated into the text.

Harnessing the Power of Viruses Boriana Marintcheva. 2017-11-13 *Harnessing the Power of Viruses* explores the application of scientific knowledge about viruses and their lives to solve practical challenges and further advance molecular sciences, medicine and agriculture. The book contains virus-based tools and approaches in the fields of: i) DNA manipulations in vitro and in vivo; ii) Protein expression and characterization; and iii) Virus- Host interactions as a platform for therapy and biocontrol are discussed. It steers away from traditional views of viruses and technology, focusing instead on viral molecules and molecular processes that enable science to better understand life and offer means for addressing complex biological phenomena that positively influence everyday life. The book is written at an intermediate level and is accessible to novices who are willing to acquire a basic level of understanding of key principles in molecular biology, but is also ideal for advanced readers interested in expanding their biological knowledge to include practical applications of molecular tools derived from viruses. Explores virus-based tools and approaches in DNA manipulation, protein expression and characterization and virus-host interactions. Provides a dedicated focus on viral molecules and molecular processes that enable

science to better understand life and address complex biological phenomena Includes an overview of modern technologies in biology that were developed using viral components/elements and knowledge about viral processes

To Catch A Virus John Booss, Marie Louise Landry. 2022-10-04 To Catch a Virus Trace the evolution of diagnostic virology from yellow fever to COVID-19 Join expert storytellers John Booss, Marilyn J. August, and Marie Louise Landry in a journey through the history of viral epidemics and the detective work of those determined to identify the culprits and treat the infected. From the identification of the first virus in the late 1800s to the molecular techniques that enabled the rapid recognition of and vaccine development for the SARS-CoV-2 virus, viral diagnostic methods have progressed over the past century to become a formidable tool in human health care. This collection of gripping historical narratives covers a range of fascinating outbreaks and public health challenges, from yellow fever and smallpox to AIDS and COVID-19. This new edition chronicles the ongoing story of the COVID-19 pandemic, highlighting the people, the pathogen, and the progress in the diagnostic laboratory and clinical settings that has touched every aspect of global health. The many photographs and rich biographical sketches of key figures, diagrams of diagnostic procedures, micrographs of virus-infected cells, timelines, and a new glossary of key terms make *To Catch a Virus* compelling reading. This book serves as an excellent resource for courses in virology, immunology, microbiology, and public health. As the world struggles with the ongoing pandemic of SARS-CoV-2/COVID-19, *To Catch a Virus* is an insightful and superbly told story that chronicles the incredible metamorphosis of diagnostic virology and the technological advances that now make it possible to quickly and accurately detect and monitor the many disease-causing viruses that plague humankind. A stimulating, informative, and absorbing read that is highly recommended. —Richard L. Hodinka, PhD, Professor Emeritus, Perelman School of Medicine at the University of Pennsylvania; former Director, Clinical Virology Laboratory, Children's Hospital of Philadelphia *To Catch a Virus* provides a beautifully written and compelling story of scientific discovery. It carefully traces the understanding of viral diseases from the turn of the twentieth century to the present. For general readers the authors provide timely and expert guidance to the extraordinary advances in diagnosis, surveillance, and therapeutics that constitute the silver lining in the otherwise somber years of COVID-19. For anyone wishing to understand the challenges confronting virologists and their accomplishments to date, this work is the place to start. —Frank M. Snowden, PhD, Andrew Downey Orrick Professor Emeritus of History, Yale University; former Chair, Program in History of Science and History of Medicine, Yale University

Assembly of Enveloped RNA Viruses Monique Dubois-Dalcq, Kathryn V. Holmes, Bernard Rentier. 2012-12-06 This book is a collection of critical reviews about a diverse group of virus families with two features in common: the stable repository of genetic information in each virus is RNA, and each virus modifies and appropriates a particular patch of the eukaryotic cell membrane system to complete its structure. The reviews take the reader from the level of virus genome structure and expression through the quaternary interactions between virus-specified elements and cellular components that cooperate to produce virus particles. There are spectacular illustrations in this volume, but it is much more than a picture gallery. Reading widely in this book can be an effective antidote to overspecialization: in these pages, you are likely to learn much about viruses and about cells that you didn't know before; you'll discover illuminating parallels between diverse virus families; you'll come away with a sharpened awareness of important things that are still to be learned. Memphis, Tenn. , Summer 1984 David W. Kingsbury Preface This book was written at the suggestion of Dr. David W. Kingsbury made at a work shop on viruses organized by the Multiple Sclerosis Society in Aspen, Colorado, U. S. A. , three years ago. Originally, we had thought to focus on the morphological aspects of viral assembly. Later, during our discussions on the process of budding of enveloped RNA viruses, it became evident that we should include biochemical data in our review and correlate them with the structural aspects of virus maturation.

Environmental Virology and Virus Ecology .2018-06-14 *Environmental Virology*, Volume 101, the latest in the *Advances in Virus Research* series, contains new, informative updates on the topic. First

published in 1953, this series covers a diverse range of in-depth reviews, providing a valuable overview of the current field of virology. Updates to this release include sections on the host landscape and vector behavior, key determinants of plant virus evolution and emergence, plant virome analysis using spatial metagenomics, host range evolution in generalist viruses, the influence of environment, water-mediated spread and transmission of viruses, viruses transmitted by means other than insect vectors, and more. Contains contributions from leading authorities in the field of virology Informs and updates on all the latest developments in the field Features a diverse range of virology topics, including discussions of host landscape and vector behavior and viruses transmitted by means other than insect vectors

Viruses: a Very Short Introduction Dorothy H. Crawford.2022-10-27 Very Short Introductions: Brilliant, Sharp, Inspiring Viruses are everywhere, and as the COVID-19 pandemic has shown, cannot be ignored. From their discovery to the unravelling of their intricate structures, this Very Short Introduction provides a rounded and concise account of the nature of viruses, how they attack their hosts, and the efforts to control them. In this new edition, Dorothy H. Crawford examines the recent rise in emerging virus infections, especially coronaviruses, including the viruses behind SARS and MERS, and SARS CoV-2 responsible for COVID-19. Crawford explores why the SARS-CoV-2 was able to spread rapidly to form a pandemic while others have produced more localized epidemics, as well as looking at the revolution in vaccine production that this has caused. Looking to the future, this Very Short Introduction considers the preventative measures and management of future dangerous viruses that are expected to emerge. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Varicella Virus D. Taylor-Robinson,A.E. Caunt.2013-06-29

The Rainbow Virus Dennis Meredith.2013 It's the weirdest bioterrorism attack ever! A frightening epidemic of unknown viruses is turning people red, yellow, blue, chartreuse, emerald, pumpkin, fuschia. . . . An eccentric, brilliant biologist vanishes from a local biotech company. Is he the culprit? An unlikely team pursues the mystery: disgraced FBI agent Bobby Loudon and obsessive CDC disease detective Kathleen Shinohara. They race to find the bioterrorist, but they are thwarted by a shadowy, deadly network called the faction. Who is this group and what is their goal? Will Loudon's and Shinohara's worst fear be realized—that the colorful infections are prelude to an unstoppable virus that the bioterrorist will unleash to devastate the world? *The Rainbow Virus* is a breakneck science fiction adventure based on the looming potential of new biowarfare technology to pose a global terrorist threat. It's also a witty commentary on the peculiar human tendency to judge people by their skin color. Author and veteran science writer Dennis Meredith has crafted this riveting tale drawing on his decades of experience working at leading research universities such as Caltech, MIT, Cornell and Duke. For more information on Dennis Meredith's novels, go to www.DennisMeredith.com.

The Virus Paradigm Roberto Marchesini.2021-02-18 In recent years, the word 'virus' has lost its biological perimeter of reference to acquire a much broader - could say 'paradigmatic' - meaning. The term 'virus' can be seen as a key word or an explanatory model also for processes that go beyond the infectious sphere. Every event appears to have a viral character: from the way information is transmitted to the processes of cultural globalization, from the impact of human beings on the planet to the subversion of ecosystems, from pandemic risks to the demographic increase on the planet. This seems to be indeed the Age of the Virus. Its model can be applied to most of the phenomena that characterize the twenty-first. Its profile - its looming and invisible nature, its ability to use other people's resources to spread and to transform into a dangerous doppelganger - is perfect to represent the fears of the contemporary age.

Going Viral Dahlia Schweitzer.2018-03-09 Outbreak narratives have proliferated for the past quarter century, and now they have reached epidemic proportions. From 28 Days Later to The Walking

Dead, movies, TV shows, and books are filled with zombie viruses, bioengineered plagues, and disease-ravaged bands of survivors. Even news reports indulge in thrilling scenarios about potential global pandemics like SARS and Ebola. Why have outbreak narratives infected our public discourse, and how have they affected the way Americans view the world? In *Going Viral*, Dahlia Schweitzer probes outbreak narratives in film, television, and a variety of other media, putting them in conversation with rhetoric from government authorities and news organizations that have capitalized on public fears about our changing world. She identifies three distinct types of outbreak narrative, each corresponding to a specific contemporary anxiety: globalization, terrorism, and the end of civilization. Schweitzer considers how these fears, stoked by both fictional outbreak narratives and official sources, have influenced the ways Americans relate to their neighbors, perceive foreigners, and regard social institutions. Looking at everything from *I Am Legend* to *The X-Files* to *World War Z*, this book examines how outbreak narratives both excite and horrify us, conjuring our nightmares while letting us indulge in fantasies about fighting infected Others. *Going Viral* thus raises provocative questions about the cost of public paranoia and the power brokers who profit from it. Supplemental Study Materials for *Going Viral*:

<https://www.rutgersuniversitypress.org/going-viral-dahlia-schweitzer> Dahlia Schweitzer- *Going Viral*:
<https://www.youtube.com/watch?v=5xF0V7WL9ow>

Fields Virology: RNA Viruses Peter M. Howley, David M. Knipe, Sean Whelan, Eric O.

Freed. 2022-06-09 Now in four convenient volumes, Field's Virology remains the most authoritative reference in this fast-changing field, providing definitive coverage of virology, including virus biology as well as replication and medical aspects of specific virus families. This volume of Field's Virology: RNA Viruses, Seventh Edition covers the latest information on RNA viruses, how they cause disease, how they can cause epidemics and pandemics, new therapeutics and vaccine approaches, as provided in new or extensively revised chapters that reflect these advances in this dynamic field. Bundled with the eBook, which will be updated regularly as new information about each virus is available, this text serves as the authoritative, up-to-date reference book for virologists, infectious disease specialists, microbiologists, and physicians, as well as medical students pursuing a career in infectious diseases.

I'm a Virus! Bridget Heos. 2022-04-12 Scary science is introduced with humor-laced facts in this new nonfiction picture book series from a prolific, award-winning children's book author, starting with our tiniest invader—the common cold virus, and its more frightening relatives! How does a virus make us sick? How does it spread? And what can people do to beat them? Hi, I'm Virus! And I'm here to answer all these questions and more! In friendly, simple text, the most common virus, rhinovirus (the common cold), explains how viruses work and spread. With funny, engaging, and informative illustrations, this is the perfect way to explain viruses to young children who have questions in the wake of a pandemic. The nonthreatening common cold walks readers through the basics of viruses, and then features past viruses we have defeated, as well as introducing COVID-19. The start of a new series designed to make scary science more approachable, Science Buddies is here to explain the world to curious young minds!

Virus Bioinformatics Dmitrij Frishman, Manja Marz. 2021-08-19 Viruses are the most numerous and deadliest biological entities on the planet, infecting all types of living organisms—from bacteria to human beings. The constantly expanding repertoire of experimental approaches available to study viruses includes both low-throughput techniques, such as imaging and 3D structure determination, and modern OMICS technologies, such as genome sequencing, ribosomal profiling, and RNA structure probing. Bioinformatics of viruses faces significant challenges due to their seemingly unlimited diversity, unusual lifestyle, great variety of replication strategies, compact genome organization, and rapid rate of evolution. At the same time, it also has the potential to deliver decisive clues for developing vaccines and medications against dangerous viral outbreaks, such as the recent coronavirus pandemics. *Virus Bioinformatics* reviews state-of-the-art bioinformatics algorithms and recent advances in data analysis in virology. **FEATURES** Contributions from leading international experts in the field Discusses open questions and urgent needs Covers a broad

spectrum of topics, including evolution, structure, and function of viruses, including coronaviruses. The book will be of great interest to computational biologists wishing to venture into the rapidly advancing field of virus bioinformatics as well as to virologists interested in acquiring basic bioinformatics skills to support their wet lab work.

Virus Hunter C. J. Peters, Mark Olshaker. 1997 The commander of the army virology unit that battled the Ebola virus in The Hot Zone--and the current Chief of Special Pathogens at the Centers for Disease Control--teams up with the bestselling coauthor of MindHunter to chronicle his extraordinary thirty-year career fighting deadly viruses. From Central and South America to a deadly outbreak of a mystery virus in the American Southwest, from fieldwork in Egypt and the mountains of Kenya to immobilizing an army unit to stop a gut-wrenching outbreak of Ebola only miles from Washington, D.C., Virus Hunter takes us backstage in the inevitable clash between biology and human lives. Because of new, emerging viruses, and the return of old, vanquished ones for which vaccines do not exist, there remains a very real danger of a new epidemic that could, without proper surveillance and early intervention, spread worldwide virtually overnight. And the possibility of foreign countries or terrorist groups using deadly airborne viruses that are easily obtained rather than unwieldy explosives looms larger than ever in the future. High-octane science writing at its most revealing and best, Virus Hunter is a thrilling first-person account of what it is like to be a warrior in the Hot Zone.

What Is a Virus? Katie Daynes. 2021-02-24 A really hands-on introduction to a topical and currently important subject. It explains the way viruses spread, where they come from and how they work, answering a children's questions with fun, interactive flaps.

Viruses, Plagues, and History Michael B. A. Oldstone M.D.. 2009-11-02 The story of viruses and humanity is a story of fear and ignorance, of grief and heartbreak, and of great bravery and sacrifice. Michael Oldstone tells all these stories as he illuminates the history of the devastating diseases that have tormented humanity, focusing mostly on the most famous viruses. Oldstone begins with smallpox, polio, and measles. Nearly 300 million people were killed by smallpox in this century alone and the author presents a vivid account of the long campaign to eradicate this lethal killer. Oldstone then describes the fascinating viruses that have captured headlines in more recent years: Ebola, Hantavirus, mad cow disease (a frightening illness made worse by government mishandling and secrecy), and, of course, AIDS. And he tells us of the many scientists watching and waiting even now for the next great plague, monitoring influenza strains to see whether the deadly variant from 1918--a viral strain that killed over 20 million people in 1918-1919--will make a comeback. For this revised edition, Oldstone includes discussions of new viruses like SARS, bird flu, virally caused cancers, chronic wasting disease, and West Nile, and fully updates the original text with new findings on particular viruses. *Viruses, Plagues, and History* paints a sweeping portrait of humanity's long-standing conflict with our unseen viral enemies. Oldstone's book is a vivid history of a fascinating field, and a highly reliable dispatch from an eminent researcher on the front line of this ongoing campaign.

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